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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/604,890 08/25/2003		Thomas Skoczylas	PES-0024-D	1889
	90 06/30/2004		EXAMINER	
CANTOR COLBURN, LLP 55 GRIFFIN ROAD SOUTH			MAI, NGOCLAN THI	
BLOOMFIELD	O, CT 06002		ART UNIT	PAPER NUMBER
			1742	
			DATE MAILED: 06/30/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)
	10/604,890	SKOCZYLAS ET AL.
Office Action Summary	Examiner	Art Unit
	Ngoclan T. Mai	1742
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with t	he correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep. If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply bly within the statutory minimum of thirty (30 I will apply and will expire SIX (6) MONTHS te, cause the application to become ABAND	be timely filed) days will be considered timely. from the mailing date of this communication. ONED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on 2a) This action is FINAL . 2b) ☐ This action is FINAL . 3) Since this application is in condition for allowed closed in accordance with the practice under	s action is non-final. ance except for formal matters	
Disposition of Claims		
4) Claim(s) 1-13 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 1-6, 8-13 is/are rejected. 7) Claim(s) 7 is/are objected to. 8) Claim(s) are subject to restriction and/o Application Papers 9) The specification is objected to by the Examina 10) The drawing(s) filed on is/are: a) accompact and applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	er. cepted or b) objected to by the drawing(s) be held in abeyance. ction is required if the drawing(s) is	See 37 CFR 1.85(a). s objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documen 2. Certified copies of the priority documen 3. Copies of the certified copies of the priority documen application from the International Burea * See the attached detailed Office action for a list	its have been received. Its have been received in Appli prity documents have been rec au (PCT Rule 17.2(a)).	cation No eived in this National Stage
Attachment(s)		
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 	4) Interview Sumn Paper No(s)/Ma) 5) Notice of Inform 6) Other:	

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1, 3, 4, 9, 10, 12 and 13 are rejected under 35 U.S.C. 102(b) as being anticipated by Harada et al. (US 5,640,669).

Harada et al discloses the claimed method by immersing a metallic porous body comprising electrically conductive materials such as Ni and Cu in a silver potassium cyanide solution to form Ag coating on the metallic porous body. The Ag acts as catalyst. See col. 3, line 32 to col. 6, line 39.

3. Claims 1, 3, 4, 9, 10, 12, and 13 are rejected under 35 U.S.C. 102(b) as being anticipated by Lindstrom.

Lindstrom disclose the claimed method in co. 6, line 3 to col. 8, line 10.

4. Claims 1-2, 4, 9-11 and 13 are rejected under 35 U.S.C. 102(b) as being anticipated by Wallin.

Wallin discloses a method for making porous composite electrode comprising forming a layer applying a mixture of ionically-conductive and electronically conductive particle onto a layer of an electrolyte material, sintering the mixture to form an

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interpenetrating network and infiltrating the network with a solution of an electrocatalyst precursor and heating the infiltrated network under conditions sufficient to form the corresponding electrocatalyst. Col. 3, lines 20-38. Wallin teaches that the porosity of the composite electrode structure is preferably at least about 20% and no more than 50% and that the average pore size of the composite structure is at least 1 micron and preferably no more than 10 microns. See col. 6, lines 53-61.

5. Claim1, 3 and 4 are rejected under 35 U.S.C. 102(b) as being anticipated by Helliker et al.

Helliker et al disclose a process for fabricating porous nickel structure useful as an inert body in the fabricating of electrodes comprising sintering a gel mixture containing nickel powder to obtain bodies having porosities above 90 percent. See col. 2, lines 51-65. Helliker et al also teach the body can be used to hold catalytic material such as platinum.

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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7. Claims 1, 3-6, 8-10 and 12-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Brennecke et al. in view of Norling et al.

Brennecke et al disclose methods for making highly porous electrodes of claims 1, 3 and 4 in col. 1, lines 64-68; claims 5, 6 and 8 in col. 1, lines 45-60; and claims 9-10, 12, and 13 in col. 1, lines 61-63.

The difference between the claims and Brennecke et al is that Brennecke et al. do not specify the porosity of the electrodes.

Norling et al, which disclose a method of manufacturing highly porous electrode, teach it is desirable to utilize electrode bodies having the maximum pore volume to maximize the storage of active material in the electrode body. Col. 1, lines 30-35.

Norling et al teach employing pore forming agent in combination with nickel powder to form highly porous electrode which is defined as having porosity of about 90 to 95% by volume. See col. 2, lines 16-35.

Since the electrode taught by Brennecke et al is also highly porous, it would have been obvious to one of ordinary skill in the art at the time the invention was made that the electrode taught by Brennecke et al be made to have porosity as taught by Norling et al to maximize the storage of active material in the electrode.

8. Claim 7 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ngoclan T. Mai whose telephone number is (571) 272-1246. The examiner can normally be reached on 7:30-4:00 PM Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on (571) 272-1244. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ngoelan T. Mai Primary Examiner Art Unit 1742

n.m.